# Quick Start Guide

This Quick Start Guide provides basic instructions for using your Dual Receiver.

To download the complete Owner's Manual please visit www.dualav.com/support/manuals.php and type in the product's model number or call customer service at 1-866-382-5476.

think before you print
Go Green

## Installation

**Before You Start**
- Consult a qualified technician for instructions. Dual always recommends professional installation.
- Disconnect negative battery terminal.
- Remove trim ring from unit (if installed).
- Remove 2 transit screws located on top of the unit (if applicable).
- Insert the removal keys, and remove the mounting sleeve from the head unit.

**Note:** Most vehicles require an installation kit, wiring harness and/or antenna adapter (all sold separately) to properly install the head unit in the vehicle.

**Installation Process**
1. Carefully remove the existing head unit.
2. Connect wiring harness. Consult a qualified technician if you are unsure.
3. Mount the head unit using the mounting sleeve or ISO brackets (depending on your vehicle's dashboard).
4. Connect wiring harness and antenna. Test the head unit for correct operation.
5. Slide into mounting sleeve to secure, or mount the ISO brackets to the vehicle.
6. Snap trim ring into place.

**Wiring Connections**
The chart below defines the connection for each wire in the wiring harness.

| Color | Connection |
|---|---|
| Red | 12V Ignition / Accessory |
| Yellow | 12V Battery / Memory |
| Black | Ground |
| Blue | Power Antenna / Amp Turn-on |
| Grey | Right Front (+) |
| Grey/Black | Right Front (-) |
| White | Left Front (+) |
| White/Black | Left Front (-) |
| Purple | Right Rear (+) |
| Purple/Black | Right Rear (-) |
| Green | Left Rear (+) |
| Green/Black | Left Rear (-) |

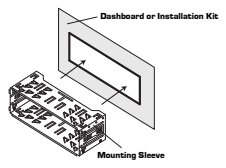
**Tip:**
When a suitable ground wire is not present in the vehicle wiring harness, connect the black ground wire to the vehicle chassis.

**Fuse:**
When replacing the fuse, make sure new fuse is the correct type and amperage. Using an incorrect fuse could damage the radio.

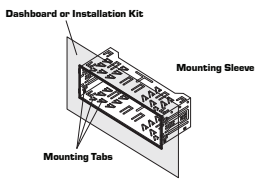
## Installation

**Mounting the Head Unit: Typical DIN mounting**

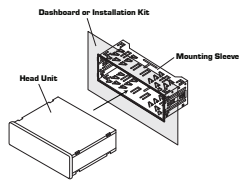
**Step 1:**
Insert the mounting sleeve into the installation kit or dashboard.




**Step 2:**
Bend multiple mounting tabs around the mounting sleeve until the mounting sleeve is secure.

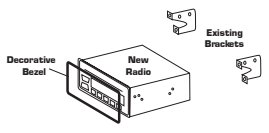



**Step 3:**
Connect all wiring harnesses and slide the head unit into the mounting sleeve until it clicks into place.




**Mounting the Head Unit: ISO mounting**

Using the existing brackets or the brackets supplied with the installation kit, mount the brackets to the sides of the head unit with the screws supplied with the head unit.




## General Operation

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| **Power On/Off** | Press the ⏻ button to turn the unit on. Press ⏻ again to turn unit off. |
| **Faceplate Removal** | Press the **OPEN** button and pull away from the left side to remove. To re-install, insert right side of faceplate first then push left side to secure. |
| **Changing Modes** | Press **SOURCE** to enter the source menu. Turn the **volume knob** to cycle to the desired source, and press **SELECT** to confirm. |
| **Volume** | Adjust volume using volume knob. |
| **Mute** | Press 🔇 to silence the audio. Press 🔇 again to resume listening at the previously selected volume. |
| **Auxiliary Inputs** | Insert a 3.5mm cable in the front AUX port or RCA cables into the rear AUX-IN connectors. |
| **Reset** | Press the **RESET** button to reset the unit back to the factory settings if abnormal operation occurs. The reset button is located behind the front panel. |
| **Setting the Clock** | With the unit on, press **MENU** until the General menu appears. Highlight the clock and press **SELECT**. Use the **volume knob** and **SELECT** buttons to adjust the time. |
| **Display** | Press **DISP** to toggle display between various displayed information. |
| **Menu** | Press **MENU** to access the audio and setup menu options. |

To download the complete Owner's Manual for your radio, please visit www.dualav.com/support/manuals.php.

## AM/FM Tuner Operation

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| **Seek Tuning** | Press **TUNE ◄◄** or **TUNE ►►** for more than one second to seek to the next strong station. |
| **Manual Tuning** | Press **TUNE ◄◄** or **TUNE ►►** momentarily to move radio frequency up or down one step at a time. Press and hold to advance quickly. |
| **Band** | Press **BAND** to select between FM1, FM2, FM3, AM1 and AM2 bands. Up to six presets can be programmed for each band, enabling up to 18 FM stations and 12 AM stations to be stored in memory. |
| **Storing Presets** | Select the desired band and station. Press the **(F)unction** button, turn the volume knob until the desired preset number is highlighted, then press **SELECT** to store the preset. |
| **Recalling Presets** | Press the **P+** or **P-** buttons to cycle through the 1-6 presets in the current band. |

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## CD Operation

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| **Insert CD** | Press the **OPEN** button to open the front panel. With the label facing up, insert a standard size CD into the CD slot. The CD will automatically begin playback. |
| **Eject CD** | Press **EJECT (located behind the front panel)** to eject the CD. The unit will change to previous mode of operation. |
| **Track Select** | Press **TUNE ►►** to skip to the beginning of the next track. Press **TUNE ◄◄** to return to the beginning of the current track. Pressing **TUNE ◄◄** again skips to the beginning of the previous track. |
| **Fast Forward/ Reverse** | Press and hold **TUNE ►►** or **TUNE ◄◄** to fast forward or reverse a track. |
| **Pause** | Press **►/ ❚❚** to temporarily stop CD playback. Press **►/ ❚❚** again to resume playback. |
| **Intro** | Press **(F)unction** to access the Intro menu. Intro will play the first 10 seconds of each track. |
| **Repeat** | Press **(F)unction** to access the Repeat menu. Repeat will continuously repeat the selected track. |
| **Random** | Press **(F)unction** to access the Random menu. Random will play all the tracks in random/ shuffled order. |
| **CD-R/CD-RW Compatibility** | Some CD-Rs and CD-RWs may be incompatible with this unit, depending on media type and recording method. Refer to the online owner's manual for details. |

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## MP3 / WMA Operation

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| **Playing MP3/WMA Files** | To play MP3/WMA files, insert a data CD or USB device containing MP3/WMA files. |
| **Track Select** | Press **TUNE ►►** to skip to the beginning of the next song. Press **TUNE ◄◄** to return to the beginning of the current song. Pressing **TUNE ◄◄** again skips to the beginning of the previous song. |
| **Fast Forward and Reverse** | Press and hold **TUNE ►►** or **TUNE ◄◄** to fast forward or reverse a track. |
| **Pause** | Press **►/ ❚❚** to temporarily stop playback. Press **►/ ❚❚** again to resume playback. |
| **Folder Access** | Press P+ to select the next folder. Press P- to select the previous folder. Folder access is only available on discs or devices with more than one folder. |
| **Repeat** | Press **(F)unction** to enter the Repeat menu, then turn the volume knob to select one of the following options:<br>• Current Song - Continuously repeats selected track.<br>• Current Folder - Continuously repeats all files in folder. |
| **Random** | Press **(F)unction** to enter the Random menu, then turn the volume knob to select one of the following options:<br>• Off - Cancels RDM function.<br>• All Songs - Plays all tracks in random order.<br>• Current Folder - Plays all tracks in folder in random order. |
| **Intro** | Press **(F)unction** to enter the Intro menu, then turn the volume knob to select one of the following options:<br>• Off - Cancels the INT function.<br>• All Songs - Plays first 10 seconds of each track.<br>• Current Folder - Plays first 10 seconds of each track in the selected folder. |

To download the complete Owner's Manual for your radio, please visit www.dualav.com/support/manuals.php.

## Operation of iPod/iPhone

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| **Connect an iPod/ iPhone Device (sold separately)** | To play music from an iPod/iPhone device, connect the USB cable (included with your iPod/iPhone device) to the unit's USB port. Playback will begin automatically. |
| **Device Compatibility** | Refer to the online Owner's Manual for a complete list of compatible iPod/iPhone devices. |
| **Song Select** | Press **►►** to skip to the next song. Press **◄◄** to return to the beginning of the current song. Pressing **◄◄** again skips to the beginning of the previous song. |
| **Fast Forward and Reverse** | Press and hold **►►** or **◄◄** to fast forward or reverse a song. |
| **Pause** | Press **►/ ❚❚** to temporarily stop playback. Press **►/ ❚❚** again to resume playback. |
| **Repeat** | Press **(F)unction** to enter the Repeat menu, then turn the volume knob to select one of the following options:<br>• Off - Repeats all tracks.<br>• Current Song - Repeats selected track. |
| **Random** | Press **(F)unction** to enter the Random menu, then turn the volume knob to select one of the following options:<br>• Off - Cancels the RDM function.<br>• All Songs - Plays all tracks in random order.<br>• Current Album - Plays all tracks in the selected album in random order. |
| **Intro** | Press **(F)unction** to enter the Intro menu, then turn the volume knob to select one of the following options:<br>• Off - Cancels the INT function.<br>• On - Plays first 10 seconds of each track. |

To download the complete Owner's Manual for your radio, please visit www.dualav.com/support/manuals.php.

## Operation of iPod/iPhone

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| **Music Search** | Press **SELECT**, and the main search menu will appear.<br><br>**Select a Category:** Turn the **volume knob** to select between artists, albums, songs, playlists, podcasts and audiobooks. Press **SELECT** to select the desired search category and/or subcategory.<br><br>**Step Backwards:** Press **BACK** to return to the previous menu or to exit the search menu when the main menu is shown.<br><br>**Playing a Song:** Navigate to the desired song/ podcast/audiobook, and press **SELECT** to begin playback. |
| **Manual Control for iPod** | When "MANUAL" control is selected from the Setup Menu, the iPod or iPhone device can be controlled directly from the device's interface. All functions except for volume can be used from the iPod or iPhone device.<br><br>**Note:** The firmware of the iPod/iPhone must be updated to the latest version to be compatible with manual control mode.<br><br>**Note:** Not all iPod/iPhone devices are compatible with manual control mode. |

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## Pandora® Operation

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| **Requirements** | Control for Pandora requires:<br>• An iPhone device with a reliable data connection, or an iPod touch that is connected to wireless internet.<br>• The Pandora App installed on the iPhone/iPod device.<br>• An active account with Pandora. Sign up at www.pandora.com.<br>• The USB sync cable that came with your iPod/iPhone device. |
| **USB Connection** | Connect an iPod touch or iPhone device (required, sold separtely) to the USB port, using the USB sync cable included with your iPhone device. |
| **Changing Stations** | Press **SELECT** to display the stations menu. Turn the **volume knob** to cycle through the list of stations, then press **SELECT** when the desired station is highlighted.<br><br>**Note:** Stations must be created on your account prior to connecting your iPod/iPhone device to the head unit. |
| **Shuffle** | Press **SELECT** to display the stations menu. Choose "Quick Mix" from the stations menu to shuffle songs from all of your stations. |
| **Skipping Tracks** | Press **►►** to skip the current song. |
| **Play/Pause** | Press **►/ ❚❚** to temporarily stop playback. Press **►/ ❚❚** again to resume playback. |
| **Thumbs Up** | Press 👍 to tell Pandora you like the current track. Pandora will play more tracks with similar qualities. |
| **Thumbs Down** | Press 👎 to tell Pandora you do not like the current track. Pandora will not play the current track again, and will avoid playing tracks with similar qualities. |
| **Device Compatibility** | Refer to the Owner's Manual for a complete list of devices compatible with this head unit.<br><br>Refer to www.pandora.com/everywhere/mobile for devices compatible with the Pandora mobile application. |
| **Troubleshooting** | **Note:** Pandora is an internet service, carrier and data charges may apply. |

To download the complete Owner's Manual for your radio, please visit www.dualav.com/support/manuals.php.

## Limited One-Year Warranty

This warranty gives you specific legal rights. You may also have other rights which vary from state to state. Dual Electronics Corp. warrants this product to the original purchaser to be free from defects in material and workmanship for a period of one year from the date of the original purchase.

Dual Electronics Corp. agrees, at our option, during the warranty period, to repair any defect in material or workmanship or to furnish an equal new, renewed or comparable product (whichever is deemed necessary) in exchange without charges, subject to verification of the defect or malfunction and proof of the date of purchase. Subsequent replacement products are warranted for the balance of the original warranty period.

Who is covered? This warranty is extended to the original retail purchaser for products purchased from an authorized Dual dealer and used in the U.S.A.

What is covered? This warranty covers all defects in material and workmanship in this product. The following are not covered: software, installation/removal costs, damage resulting from accident, misuse, abuse, neglect, product modification, improper installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the product, or damage occurring during return shipment of the product. Specific license conditions and copyright notices for the software can be found via www.dualav.com.

What to do?
1. Before you call for service, check the troubleshooting guide in your owner's manual. A slight adjustment of any custom controls may save you a service call.

2. If you require service during the warranty period, you must carefully pack the product (preferably in the original package) and ship it by prepaid transportation with a copy of the original receipt from the retailer to an authorized service center.

3. Please describe your problem in writing and include your name, a return UPS shipping address (P.O. Box not acceptable), and a daytime phone number with your shipment.

4. For more information and for the location of the nearest authorized service center please contact us by one of the following methods:

• Call us toll-free at 1-866-382-5476
• E-mail us at cs@dualav.com

Exclusion of Certain Damages: This warranty is exclusive and in lieu of any and all other warranties, expressed or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose and any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from the company's negligence, actual or imputed. No person or representative is authorized to assume for the company any other liability in connection with the sale of this product. In no event shall the company be liable for indirect, incidental or consequential damages.

## FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

**Warning:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Dual audio·video

Dual Electronics Corp.
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www.dualav.com

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